

# **ED-614**

M.A./M.Sc. 3rd Semester Examination, March-April 2021

## MATHEMATICS

Optional (A)

Paper - III

Fundamentals of Computer Science

Time : Three Hours]

[Maximum Marks : 70

**Note** : Answer any **two** parts from each question. All questions carry equal marks.

#### Unit-I

- (a) Describe in detail about object-oriented programming.
- (b) Write a program using nested classes.
- (c) Write a program using destruction.

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(Turn Over)

### (2)

#### Unit-II

- 2. (a) Describe operators in detail.
  - (b) Describe in detail about virtual functions.
  - (c) Describe class templates in detail.

#### Unit-III

- 3. (a) Describe W notation in detail.
  - (b) Explain lists in detail.
  - (c) Write a program in queues.

## Unit-IV

4. (a) Describe in detail about following tree.



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(Continued)

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### (3)

#### Unit-V

- (a) Describe sorting in detail. 5.
  - (b) Write a program for quick-sort.
- https:/// (c) Draw a flow chart for comparision of

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